

[002]        The application claims priority from German Application Serial    ♦♦  
              No. 103 02 023.3 filed January 21, 2003.     ♦♦

[003]        FIELD OF THE INVENTION     ♦♦

[004]        The present invention concerns a multi-stage transmission of planetary  
              structure, in particular an automatic transmission for a motor vehicle, according    ♦♦  
              to the preamble of Claim 1.     ♦♦

[005]        BACKGROUND OF THE INVENTION     ♦♦




[011]        ~~—— According to the invention this objective is achieved by the characterizing~~    ♦♦  
              ~~features of the independent Claims 1, 2 and 3. Advantages and further~~    ♦♦  
              ~~advantageous design features emerge from the subordinate claims.~~    ♦♦


[012]        SUMMARY OF THE INVENTION     ♦♦

[016]        In a second advantageous embodiment a shaft is permanently connected  
              to the solar gearwheel of the second planetary gearset and to the web of the first  
              planetary gearset, and another shaft is permanently connected to the solar  
              gearwheel of the first planetary gearset. In addition, it is provided that a further  
              shaft is permanently connected to the solar gearwheel of the third planetary  
              gearset (P3). Both the first and the second embodiment comprise two brakes    ♦♦  
              and three clutches as shift elements.

[017]        Furthermore a third embodiment is proposed, which comprises three  
              brakes and two clutches. In this case the annular gearwheel of the first  
              planetary gearset can be connected to and released from the housing by a  
              brake; a shaft is permanently connected to the solar gearwheel of the second  
              planetary gearset, another shaft is permanently connected to the annular  
              gearwheel of the first planetary gearset, and a ~~sixth~~ further shaft is permanently    ♦♦  
              connected to the solar gearwheel of the third planetary gearset.

[025]        BRIEF DESCRIPTION OF THE DRAWINGS     ♦♦

[026] Below, ~~t~~ The invention is explained in greater detail will now be described,   
by way of example, with reference to the accompanying drawings~~[[,]]~~ in which   
show: 

[031] DETAILED DESCRIPTION OF THE INVENTION 

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### Reference numerals

0 Shaft

1 Shaft

2 Shaft

3 Shaft

4 Shaft


5 Shaft

6 Shaft

03 Brake

~~[[4]]~~ 04 Brake 

~~[[5]]~~ 05 Brake 

~~[[6]]~~ 13 Clutch 

15 Clutch

16 Clutch

45 Clutch

P1 planetary gearset

P2 planetary gearset

P3 planetary gearset

An Drive input

Ab Drive output

i Transmission ratio

f Speed change